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The Students of Worcester Polytechnic Institute

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The Tech News

Thanksgiving, like ambassadors, cabinet officers and others smeared with political ointment,
Depends for its existence on Presidential appointment.
—Ogden Nash

Volume 58

Worcester, Massachusetts, Wednesday, November 15, 1967

Number 23

First Tech Council Elections Thursday

Elections of class and independent representatives for the Tech Executive Council will be held on Thursday, November 16. Those elected will fill the positions created by the new Constitution.

Each individual class has the responsibility of electing its representative. The Junior Class has announced the following candidates: Don Forcella, Pete Grosch, Larry Katzman and Dave Kuniholm. Junior class President Dave Zlotek has set the election for 11:00-11:45 a.m. in Higgins 109.

Candidates from the Sophomore Class are: Bob Rosenberg, Tony

Toscano, Pete Denoncourt, Ed Mason, and Ray Paulk. Sophomore class president, Lenny Polizotto, has announced that these elections will be held in Olin 107 from 11:00-11:45 a.m.

Details on the Freshman, Senior, and Independent elections are not available at this time. However, announcements will be made to those concerned prior to election day.

The Council is being established to perform the executive functions of the Tech Student Government. The Executive Council will have the final authority in all matters of student government with the exception of judicial decisions. It has the power to appoint committees, call for referendums, and amend the Constitution. A major duty of the Executive Council is to approve or refuse the budget submitted by the financial board.

The normal term of office of the Council will coincide with that of the President, except in the case of the Freshman representative who will be elected the Fourth Thursday in September. The Executive Council is also charged with the function of determining procedures and qualifications for the Presidential election.

Dormitory Committee Establishes Bylaws

On Thursday, November 9th, the Dormitory Committee met in Alden's Green Room to establish its bylaws and to clarify parietal hour regulations. Toby Bashaw, the president of the Freshman class, is chairman of the committee and presided over the meeting.

The bylaws are as follows: Meetings will be held bi-monthly on Tuesdays at 8:30 p.m., with two-thirds of the membership needed for a quorum. All measures need a simple majority vote to be passed.

The Chairman may be impeached by a three-fourths vote of the committee. If this should

Parisian Theme Will Highlight I.F. Weekend

The Interfraternity Council has announced that I.F. Weekend will be held on December 8-10.

The I. F. Ball will be presented on Friday evening from 8 to 11 p.m. in Alden Memorial. Its setting is aptly described by its theme—"Evening in Paris." Mood for the Ball will be highlighted with colorful decorations, bringing alive the feeling of an evening in the enchanted city. The Eiffel Tower and various other distinctive scenes will accent this atmosphere.

Entertainment for the Ball will be provided by Larry Lane and his Orchestra. This 10 piece ensemble is well known for the unique way in which they can enhance a theme with appropriate selections. What might be called the "looser" reflection of Paris life will be provided by the John B. Trio during intermission.

The Ball is open to all Tech students and appropriate attire will be expected. Tickets may be purchased from fraternity representatives in all houses or from

dorm counselors in dormitories.

On Saturday afternoon, Dec. 9, "Spanky and Our Gang" will entertain with comedy and song. Mattresses, furnished for the oc-

casian, will provide a very relaxing atmosphere.

The concert will be held from 2-4 p.m. in Alden Memorial at \$1.50 per couple.



Spanky and Our Gang

I.F. Concert Features Spanky and Our Gang

The Worcester Tech Social committee announces the signing of *Spanky and Our Gang* for a concert to be presented Saturday afternoon of IF Weekend. The group is not only an excellent vocal foursome but also are excellent comedians.

This summer they hit the top spot on the record charts with "Sunday Will Never be the Same." In a typical set, the troupe performs in styles as varied as pop, rock, folk, jugband, vaudeville, country and Western, blues, show tunes, protest, anti-protest, and a few other genres, for which names

haven't been coined. *Spanky and Our Gang* always seem to be genuinely enjoying themselves onstage, which could be one reason why audiences appreciate the mirthful manner of Spanky and her three-man gang.

The group has performed at colleges throughout the nation. Among them are the University of Michigan, Detroit; Princeton University, Princeton, N.J.; University of Bridgeport, Bridgeport, Conn.; Tufts University, Medford, Mass.; Indiana University, Indiana, Pa.; and Washington University, St. Louis.

For this concert the Social Committee is going to try something different. There will be no chairs in Alden, so bring a mattress or blanket. The price of tickets will be only \$1.50 due to the incoming Activities fee. Tickets will go on sale after Thanksgiving vacation and may be purchased from fraternity representatives and dorm counselors. Only 800 tickets will be available, so get your tickets early!

occur, the committee will then suggest three possible replacements to the President of the Executive Council who will select one of these three to fill the post.

The committee will have the right to expel any incompetent members.

(Cont. on p. 8, col. 1)

Five Houses Charged With Rushing Violations

At a meeting of the Judicial Board of the I.F.C. on Thursday, November 9, the Executive Board of the I.F.C. charged five fraternities with violation of rushing rules

by having contact with freshmen after 9:00 on Friday, November 3.

Alpha Tau Omega claimed that several pledges entered their annex, but were thrown out immediately. The Judicial Board then found ATO not guilty.

Sigma Phi Epsilon admitted that it left two cases of beer outside the house for their freshmen. The fraternity was found guilty and fined \$50.

Phi Kappa Theta said that a party attended by a number of their freshmen was not attended by any active brothers. The Judicial Board felt that PKT's testimony indicated that the fraternity needed more time to gather evidence and prepare a defense. Therefore, action on PKT was postponed.

Lambda Chi Alpha admitted

(Cont. on p. 9, col. 1)

R.O.T.C. Committee Appointed

The first meeting of the seven-man committee to study the ROTC program at Worcester Tech was held Thursday, Nov. 9. It is chaired by Dr. Wilmer L. Kranich of the Department of Chemistry.

(Cont. on p. 5, col. 5)

"The Goat's Head" Opens in Commons

"The Goat's Head," the senior pub in Daniels Commons, opened Friday night, November 10. Professor Olson poured the first mug of beer at 4 p.m. to begin the trial operation of the pub. Approximately seventy-five people attended, including ten administration and faculty members.

Legal difficulties almost prevented the pub from operating. In order to sell beer or any alcohol, a license is required. In the scramble to get the pub operating,

everyone involved forgot this until the college lawyer pointed it out. To by-pass this problem, beer was free Friday night to seniors over twenty-one, graduate students, and faculty and administration members who bought the one dollar membership card. In the future, the members may be assessed dues for the beer consumed.

One hundred and thirty of those eligible have bought cards and are now members of "The Goat's

(Cont. on p. 6, col. 1)

Computer To Speed Job Applications

This year seniors at Tech will have an opportunity to participate in a new computerized method of applying for job interviews. This system, known as SCAN, provides the possibility of having a student's resumé seen by more companies than normally possible. The procedure is as follows: a resumé

(Cont. on p. 9, col. 4)

The Tech News

Vol. 58 November 15, 1967 Number 23

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Editorials

A STRONG IFC

The recent action of the IFC has provoked much comment among the various brotherhoods. While most of the fraternities condone the IFC's new power in principle, they seem hesitant to support it in practice. But one cannot exist without the other. If the IFC is to have the power, it must be able to enforce its decisions without having to face more discussion on whether it has the right to exercise that power. The point is, it has both the right and the necessity, and the fraternities should be deciding how to codify it more judiciously, rather than waving the red flag again.

As for the decisions concerning Rushing infractions, we support the prompt and purposeful action taken by the IFC. While the *degree* of punishment (particularly to Theta Chi) may be open to debate, we believe that some type of stringent action was necessary. Even though the Rushing Rules may be in sad need of revision—as this whole mess clearly indicates—they are nevertheless on the books and must be obeyed. Civil disobedience implies a realization that punishment must be accepted.

President Storke's challenge to fraternities still stands. It can only be met through the concerted strength of a strong and independent IFC.

Ode to Ye Delites

"Ods, Bods, what's that m'luv,
The sound of drink from yonder pub?
Could it be at Whoopee Tech?—
Impossible!—but what the Heck."

So off he flew, feet afire,
(The scent of beer dulled desire),
And there, standing in disarray,
He guzzled the rest of the day.

(Chorus)

Come Holtz, come Razz, come Eggiman and Grogan
Sure an' Begorra this is better than Nolan.
For it's been many a year—ay, and that was the rub—
That we had to go without a Senior Pub.

AT RANDOM

Psychedelic Poop Out

This essay inaugurates a series of articles whose overall theme is "America in Crisis." This series has been motivated by many conversations and much thought, but its primary purpose is to spark debate and comment. For this reason, I encourage anyone who wants to air his opinion to write to the paper. The true test of conviction is the courage to subject it to scrutiny.

Escapism is nothing new in our culture. Every Saturday night drunk ever committed was undertaken as a vacation from the wears and tears of everyday existence. But escapism as a religion—a philosophy of life—is new. The dogma promoting the "psychedelic experience" as a means to self-awareness, self-knowledge, and self-extension is a fairly recent acquisition to Western thought (although its Eastern origins are ancient). And this artificial super-sensory stimulation—this "trip"—taking to Elysian delights and tortures—is a drastic new way to achieve the fruitful coexistence with life that all men seek. It is also a dangerous way, not only in its possible physio- and neurological effects, but in the breakdown of the true struggle which it symptomizes.

Sweeping aside all the ridiculous debate and the endless rounds of data which both proponents and critics spew forth, there remain certain basic propositions. First, psychedelic drugs alter the nature of perception. Whether for better or worse is immaterial; the important thing is that they "make you see things differently." Second, they alter the reasoning process of the human mind. Even the most violent adherents of "mind-expanding" drugs claim that they are able "to think more clearly than ever before." Finally, it is claimed that the encounter with this "new reality" can produce revelation, not only about oneself, but about the whole of existence in which one is immersed.

Without drawing the obvious parallel between these notions and those of the Eastern mystics (among whom, incidentally, number many of the Old Testament prophets), certain non-sequiturs may be noted. First of all, it is very difficult to see how an experience distorting the perceived structure of reality can produce reliable knowledge about this reality. Second, since the process of reason is altered, no possible "reasonable" explanation of these phenomena can be offered. They must be grasped as a whole in the style, perhaps, of Bergsonian Intuitionism, but there cannot be any step-by-step understanding as is characteristic of ordinary human logic. Finally, while "revelation" is an often-flaunted benefit, the nature of this revelation has rarely been satisfactorily explained (that is, explained so that another human may partake of it), and even when so done, comes out to little more than trite dogma which men have been harangued with for ages.

But these indictments do not negate the experience; they only indicate that it is an intensely personal one, not a social one. This in itself, however, is the most serious indictment. For in becoming purely personal, it loses the essence of real individuality and becomes sharply emotional. Rather than being a part of a greater reality to be organized within the framework of an individual's experience, it stands outside of that experience to be interpreted by its own rules. That is why LSD was originally used to simulate schizophrenia: schizophrenics, too,

(Cont. on p. 5, col. 3)



Music Doesn't Something Seem Missing To You?

by Ritchie Barnes

To the average person, the Association may not seem a very exciting group. They don't have a piercing sound like the Stones, instead they have a more subdued, precise sound. Two things have kept the Association from being a really big group. They are over the heads of the average, and they are a very inconsistent group.

They have contributed several unique things to music today—their harmonies are impeccable and unusual (they use a great deal of major sevenths), their progressions are original, their arrangements are quite varied—but a great deal of their sound is bland. One of their greatest failings in their songs is the lack of a distinctive melody. At first, you might think you are listening to a choir rather than a rock group, but if you're willing to look further you'll find a great deal of talent.

Their first album had two exceptional songs: *Along Came Mary* and *Cherish*. The rest of the album is nice but nothing very exciting. It is more mood music than anything else. The second album was quite a disappointment. It seemed as if they had gotten themselves into a rut. The seemed to fade into oblivion.

But, then the group changed. Gary Alexander left the group and was replaced by Larry Ramo (formerly of the New Christ Minstrels). They also changed companies, (Valiant to Warner Brothers), and had new arrangements and engineers. They are a little more commercial, and Larry's voice seems to produce a freshness that the group was missing. While there are still weak cuts, there are several really good cuts: *Windy*, *Never My Love*, *Happiness Is*, and *On a Quiet Night*. The rest of the album is much better than what they have previously released. The harmonies are still there, the bandwork is more predominant, and the album, as a whole, is happier. They seem finally to have found their bag.

Entertainment

Art Blakley and

The Jazz Messengers

Jazz Workshop

Boylston St., Boston

Reverend Gary Davis

Club 47

Palmer St., Cambridge

Epitaph for George Dillon

Clark University Players

Atwood Hall

November 17, 18

Eric Ericson

The Nameless Coffee House

Cambridge

(Cont. on p. 5, col. 5)

WORC. HOUSING PROBLEM; SOME CONCLUSIONS

by Gerry Axelrod

This is the final article in the series on Worcester Housing problems.

The conflicts caused by housing conditions in Worcester have been touched upon by two previous interviews. Although there were many small problems that were not exposed, the main crisis was obvious. The housing conditions in Worcester are improving slowly, being hindered by red tape and communication difficulties. The Worcester city officials are moving to meet the problems only when they are forced to the surface. They are not treating the housing issue as a pressing problem. The committees investigating urban renewal are not acting fast enough or in enough depth to satisfy the more active citizen groups.

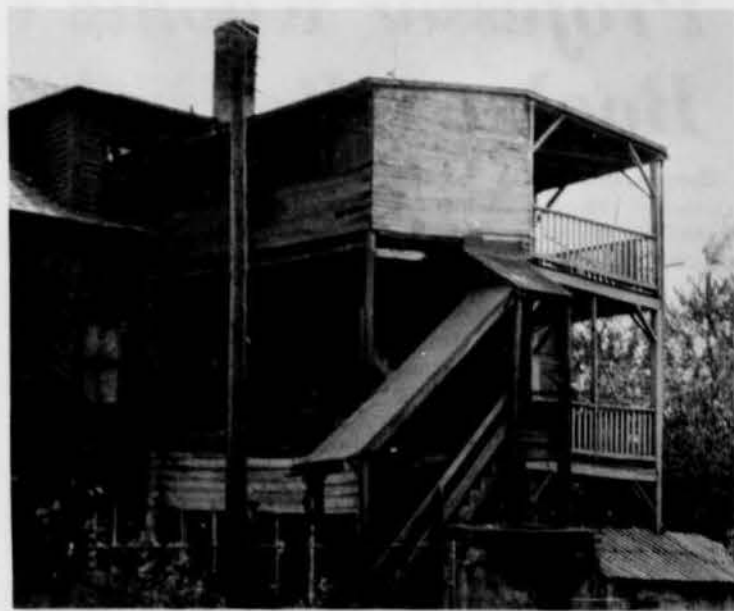
In the first interview, Mr. Walker said that the "poor whites" in Worcester had failed to organize. They were poorly motivated and unaware of their political influence. In order for the housing situation in Worcester to go through rapid change, the interests of people in need must be temporarily consolidated. The different groups must first set the wheels of change in motion before they can direct their influence toward personal interests. Minority group pressure in Worcester should not divert strength from any proposed housing improvements for small personal gain.



These houses exemplify the Worcester housing problem.

Worcester's city officials are not ignoring minority groups. They are trying to do "the greatest good for the greatest number." For immediate improvement, the Worcester Negro should accept this premise temporarily and at-

tempt to join with other groups sorely in need of housing to form a larger body. This body will be a "greater number" and will warrant the immediate attention of those in power.



CONSTRUCTION BEGINS ON CITY SCIENCE CENTER

On the 18th of November, ground will be broken near Lake Quinsigamond for the construction of the Worcester Science

Center. Including a museum building, zoo, and botanical gardens, the 500 acre center will be the only one of its kind in the

world. Plans, maintenance, and raising of funds for the new center are the project of the Worcester Natural History Society which now runs the fine Worcester Science Museum. Center will be built with private funds and will be self supporting after the first year by charging a minimal admission to the expected one million visitors per year.

As pointed out by Mr. Richard T. Kleber, director of the present and planned museum, the purpose of the center will not be to replace any class teaching but rather to spark interest of the sciences in children. The exhibits are planned for all age groups and degrees of scientific or technical knowledge. In a society where most people must specialize, the adult can increase his knowledge of other aspects of life in a pleasant and enjoyable way.

The museum building will feature exhibit halls, an "Omnisphere," a total energy system, and a 160 ft. monument to Robert H. Goddard which will look over most of the hills around Worcester. The "Omnisphere" is a new concept in teaching tools. Employing advanced optical techniques, the "Omnisphere" can put its audience anywhere. For general use, it will be used as a planetarium, an atmospherium (projecting and explaining weather conditions), and an under-the-sea-room. Other programs are possible in the future, and these will be rotated with the above programs in the "Omnisphere."

The exhibit halls will house exhibits of natural, physical, and space sciences. There will be no

DR. JOHN BOYD NAMED TECH COUNCIL ADVISOR

The Executive Council of the student government held its weekly meeting on Monday, Nov. 6. It was announced that Dr. John Boyd of the M. E. department has been named the adviser for the Tech Council.

Dr. Boyd graduated from Ohio State University in 1952 with a B.M.E. degree and was awarded his Ph.D. from the same institution in 1962. He has been an associate professor at Worcester Tech since 1966.

The academic committee is already in operation, and the financial committee is almost ready to begin functioning. It was decided at the meeting that the social committee did not need a faculty adviser or a set of bylaws. The assembly committee would be incorporated as part of the social committee.

Next, it was decided that if an organization overspent its budget, it must submit a new budget to be approved by the financial committee in order to get more money. The budgets of the organizations should be submitted by April 1.

Finally, the subject of the Goat's Head was discussed. Here it was found that the Administration's idea for the Goat's Head was a place where independents could bring beer they had bought outside. The purpose of this is an attempt to equalize the situation of independents with that of fraternity members.

There will probably be another group, the Shield, involved in running the Pub. Possibilities for the Independents using the pub for the purpose outlined by the Administration were also discussed.

major separation of the exhibits so that one will not be inclined to miss something because "Oh, I'm not interested in that." All exhibits will be revised and replaced as time goes by, and special exhibits (such as possibly one from the Alden Research Laboratory) will be abundant. One of the major exhibits will be an extremely efficient "Total Energy System" by which the entire center will be powered, heated, and cooled by natural gas-internal combustion engines with expected loss of less than 14%.

The zoo is expected to be one of the finest in the United States. It will employ new methods of encasement (getting rid of bars and glass) such as moats and thin vertical wire, and new methods of heating to have tropical animals

and birds outside all year 'round. Its veterinary hospital is expected to tie in well with the new medical center which is to be built nearby.

Plans for the botanical gardens include ponds, waterfalls, gardens, and glades-heated and powered to contain some of the tropical exhibits outside, in all weather.

The science center was designed by Edward Durell Stone, one of (if not the) foremost and famous architects in the world. The planning has taken seven years and development will be in three phases. Completion of the first phase is scheduled for May 1969, costing \$1,750,000. The Worcester Natural History Society has collected almost 2 million dollars already. The Worcester Science Center will be one of the greatest con-

(Cont. on p. 9, col. 1)

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Professor Koontz Completes Book on Radiation Shelters

Many students think the only "extra-class room" activities of Kaven Hall are performed by the civils surveying Institute Park and timing the cars on the corner of Park Ave. and Salisbury St. But the Civil department, like most of the other departments on campus, is persistently working in research and development for the government and private corporations. Included in the list of areas of interest are radiation shelters, urban planning, mining techniques, and concrete design.

Prof. Carl H. Koontz, with occasional help from graduate students Carl Hellstrom and Dwight Baker, runs the Professional Advisory Service through which he gives technical advice on employing public fallout shelters in suitable buildings. Prof. Koontz recently received a commendation from the state Civil Defense Agency for his work. He is considered to be one of the leading eight men in the country on radiation shelters and has just completed a book, Shelter Design Data, which will be the standard text for all construction, development, and courses on such shelters.

Sponsored by the U.S. Defense Department, Prof. Koontz gives free advice to engineers and architects on incorporating dual purpose shelters into the structures which they are designing. Many

new buildings can be planned with dual purpose shelters (usually used as central corridors, storage rooms, etc.) without any extra cost; the Defense Department supplies all emergency food and equipment. An example is the recently designed school in Marlboro which for \$25,000 extra will be able to house 1,500 people in its gymnasium, cafeteria, kitchen, and storage rooms in the case of an emergency.

An emergency could be a nuclear attack or accidental explosion of a nuclear plant or weapon. There is a bill before the state legislature to incorporate dual purpose shelters in all new suitable buildings. Some argue that the new anti-missile system will make shelters obsolete, but Prof. Koontz points out that the warheads will still explode, though off target. Even if they are destroyed in flight

(which is not expected with the new system), the anti-missile missiles use nuclear warheads which will increase the amount of fallout.

Prof. Koontz has just received a \$100,000 Defense grant which reimburses the school for his time, and pays the cost of his secretary and other expenses. He also conducts two classes (besides the one at Tech) in shelter design for professional people.

Prof. Joseph Sage, assisted by John Lawrence, has just received his third consecutive two-year contract from the Vermont Marble Co. (the world's largest producers of marble) for research on mining and engineering problems associated with calcitic marble. Most of the problems deal with the relation of geologic structures to the tested shear, tension, and compression strength of the marble. In-

(Cont. on p. 7, col. 1)



Scene from "Banners at Shenandoah" held Friday, November 10 at Alden.

ANNOUNCEMENT

Any club or organization wishing to publicize a meeting or event may have it posted on the bulletin board in front of Alden Memorial. Please submit all such information to the Alpha Phi Omega box in Boynton Hall by the Saturday prior to the event.

Financial Aid Applications Now Available

All forms for financial aid and jobs for the second semester will be available in Mr. Heselbarth's office on November 15. The deadline for returning them is December 15. The same form is used for financial aid and employment. Some types of work may be had January 1, 1968.

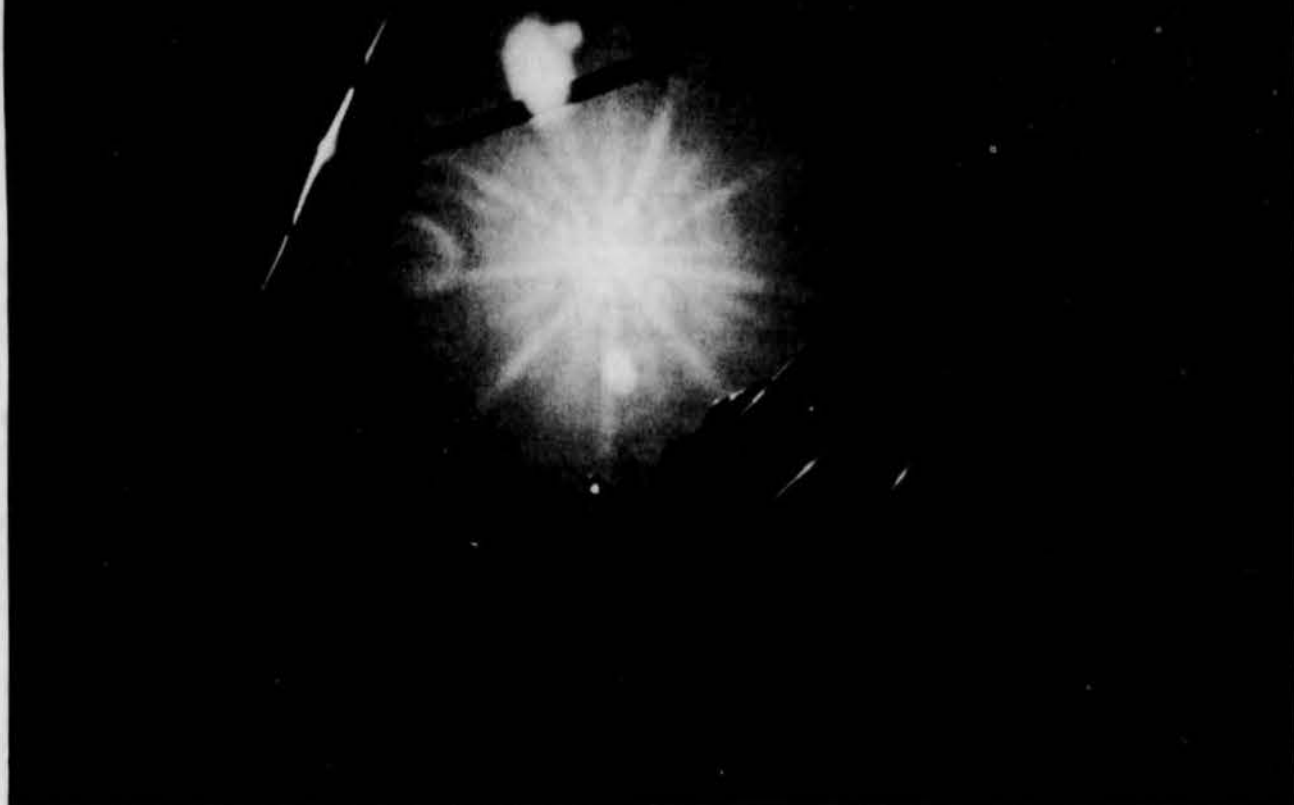
Presently 30% of the student body has some form of financial aid, whether a grant, scholarship, loan, or the Work-Study program. Four hundred three men receive a total of \$278,000 in scholarships and grants. Two hundred forty-nine men have \$215,000 in loans.

Forms for all financial aid for summer students and the first semester 1968-69 can be found in Mr. Heselbarth's office after February 15, 1968. They are due March 15, 1968.

Financial aid includes Grants, Scholarships, Loans, and the Work-Study Program. A Grant is money contributed by W.P.I., industry and/or the Federal Government. The amount available varies from year to year. Under the Work-Study Program students have part-time jobs as a form of financial aid.

Parents are reminded of two factors. First, the Parents' Confidential Statement has been simplified this year. Second, the expected parental condition, of those who earn more than \$10,000 per year, has been reduced.

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Worcester Library Features "Star Time"

The Worcester Public Library is currently showing "Star Time," a film series featuring some of the most famous stars and films in motion picture history. There are three showings on the second Monday of each month, at 2:00 p.m., 6:00 p.m., and 8:15 p.m. Tickets are distributed half an hour in advance of each show at no cost, and generally go very quickly.

The series was initiated last year by James Bryant, the head librarian, who is interested in making the library an active and contributing organization in the Worcester community. Last year's films ranged from comedy with Mae West to Avant-Garde, concluding with the French New Wave film "Marienbaud," and attracted people from as far as Boston.

Looking ahead to the next two films, "My Little Chickadee" fea-

tures two of the all-time great comedians. Mae West, who, as an aside, was the main reason for the passing of present film censorship laws in the 1930's, combines her polished innuendos and tempting figure with W. C. Fields' freewheeling, corny-but-wonderful style to produce a picture that is truly hilarious. "My Little Chickadee" is regarded as one of W. C. Fields' very best pictures, and is the only one he and Mae West made together. In "Camille" Greta Garbo transforms a hackneyed plot into a moving story, creating pathos by her tremendous ability to project an aura of pride and courage. She received an Academy award nomination for this picture, and it is a classic example of and tribute to her great acting ability.

The film schedule is as follows:

Monday, December 11, 1967

Mae West and W. C. Fields in *My Little Chickadee*

AT RANDOM—

(Cont. from p. 2, col. 4)

place their experiences in a unique, highly personal reality. So the drug experience is, as it is aptly described, a trip from reality—an escape *par excellence*.

The drug user is not a prophet among us—he is a parasite. He is one who has renounced the inner turmoil of existential struggle to receive the sacrament of instant revelation. He is one who announces his inability to deal with stark reality in favor of a journey to a new, more satisfying world. He is one who seeks canned values, canned morality, and canned life. For him, the wonder of living—of the beauty of life seen through opened eyes—is sacrificed to the grotesque images of an artificial cartoon. And, if he cannot tolerate the ugliness that also is a part of life, he runs to his flower world, a childish miscreant afraid to answer with the triumphant "I am" that asserts the ultimate challenge of living.

B. G.

Monday, January 8, 1968

Greta Garbo and Robert Taylor in *Camille*

Monday, February 12, 1968

Humphrey Bogart and Lauren Bacall in *Key Largo*

Monday, March 11, 1968

Burt Lancaster and Montgomery Clift in *From Here to Eternity*

Monday, April 8, 1968

Rosalind Russell and William Holden in *Picnic*

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The National Security Agency is responsible for designing and developing "secure" communications systems and EDP devices to transmit, receive and process vital information. The mission encompasses many aspects of communications, computer (hardware and software) technology, and information recording and storage ... and provides a wealth of career opportunities to the graduate engineer and mathematician.

ENGINEERS will find work which is performed nowhere else ... devices and systems are constantly being developed which are in advance of any outside the Agency. As an Agency engineer, you will carry out research, design, development, testing and evaluation of sophisticated, large-scale cryptocommunications and EDP systems. You may also participate in

related studies of electromagnetic propagation, upper atmosphere phenomena, and solid state devices using the latest equipment for advanced research within NSA's fully instrumented laboratories.

MATHEMATICIANS define, formulate and solve complex communications-related problems. Statistical mathematics, matrix algebra, and combinatorial analysis are but a few of the tools applied by Agency mathematicians. Opportunities for contributions in computer sciences and theoretical research are also offered.

Continuing your Education?

NSA's graduate study program may permit you to pursue two semesters of full-time graduate study at full salary. Nearly all academic costs are borne by NSA, whose proximity to seven universities is an additional asset.

Salaries and Benefits

Starting salaries, depending on education and experience, range from \$8,000 to \$13,500, and increases follow as you assume additional responsibility. Policies relating to vacations, insurance and retirement are liberal, and you enjoy the advantages of Federal employment without Civil Service certification.

Another benefit is the NSA location, between Washington and Baltimore,

which permits your choice of city, suburban or country living and allows easy access to the Chesapeake Bay, ocean beaches, and other summer and winter recreation areas.

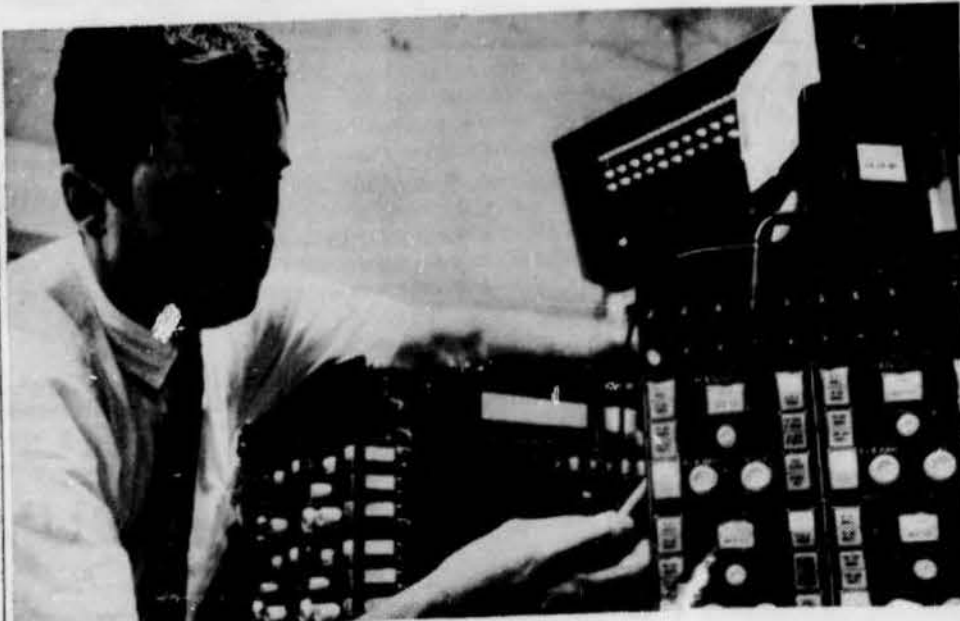
Campus Interview Dates:

December 4

Check with the Placement Office now to arrange an interview with NSA representatives on campus. The Placement Office has additional information about NSA, or you may write: Chief, College Relations Branch, National Security Agency, Ft. George G. Meade, Maryland 20755, ATTN: M321. An equal opportunity employer, M&F.



**national
security
agency**



... where imagination is the essential qualification

ENTERTAINMENT—

(Cont. from p. 2, col. 5)

"Light and Motion"
Worcester Art Museum
Free Admission

Carl "Yaz" Yastrzemski
November 18—2 p.m.
Little Commons
Carl University
Admission \$2.00

FUTURE EVENTS

Siegel-Schwall Blues Band
November 20-25
Club 47

Nov. 20 only—with the J. Geils
Blues Band

The Mothers
Psychodelic Supermarket
Boston

The Chambers Brothers
Nov. 24-25
Jordan Hall
Boston

ROTC—

(Cont. from p. 1, col. 3)

The primary objective of the committee is to study the two-year introductory ROTC program and the advanced program and make recommendations concerning them at the end of the current academic year. Another purpose is to serve for the academic year as an advisory committee for ROTC affairs.

In order to achieve these objectives, the committee is now gathering facts concerning the ROTC program, both as it exists at Worcester Tech and as it is run at other colleges. At a later date it will issue invitations to WPI students, faculty, and administration who wish to appear before the committee.



MAL DOMINY

BSEE, Union, is assistant electrical foreman of our giant plate mill at Burns Harbor, Ind.—a highly automated mill using solid state devices for power conversion equipment. Mal's duties include both technical aspects of operation and maintenance and supervision of a large crew of craftsmen.

MANAGEMENT MINDED?

Career prospects are better than ever at Bethlehem Steel. We need on-the-ball engineering, technical, and liberal arts graduates for the 1968 Loop Course. Pick up a copy of our booklet at your placement office.

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Progress Program

**BETHLEHEM
STEEL**



GLEE CLUB ORGANIZED BY PROFESSOR CURRAN

This year, once again, the W.P.I. Glee Club has been organized by Professor Louis Curran. The Club has seventy-two members, and it needs eight more. Anyone interested should see Professor Curran at one of the rehearsals—Tuesdays, 6:30 to 8:30 p.m. or Thursdays 11:00 a.m. to 12:10 p.m. in the Old Library in the basement of Alden.

Prof. Curran is quick in pointing out some of the advantages of the Club: great enthusiasm among the members—something he feels is lacking in most other school activities, and travel to various girls' colleges, as well as hosting them here—also something lacking in other school activities.

Although all the activities of the Club have not been planned, most have been planned, and these go as follows:

(any dates omitted will be announced later)

Dec. 3 at Mt. Holyoke for a Sunday morning service.

Dec. 6 Mt. Holyoke Concert Choir at W.P.I.

Jan.—at Mt. Holyoke at Elms College in Springfield

Feb.—at Russell Sage College in Troy, New York

March—Connecticut College of Women at W.P.I.

Spring Vacation—on tour to Washington, D. C.

Good Friday—in New London, Conn. with Connecticut College of Women

April 27—Simmons College at W.P.I.



Professor Louis Curran leads Glee Club rehearsal

May 3-4—co-host of Intercollegiate Choral Festival to be held in Harrington Auditorium (if completed)

May 5—at Simmons College, in Boston

May 11—Russell Sage College at W.P.I.

VOTE

Election of the Independent Representative to the
EXECUTIVE COUNCIL
will be held
Thursday, November 16th
Time: 11:00-12:30
Place: Alden Memorial Auditorium
ALL Independent Students are Eligible to Vote!

NOTICE

The **MASQUE**
"THE MOUSE THAT ROARED"
Friday, December 1, 8:00 P.M.
Alden Memorial Auditorium

Tickets available from
Dormitory and Fraternity Representatives Now.
Single Tickets: \$.99 Couples: \$1.75

GOATS HEAD—

(Cont. from p. 1, col. 2)

Head." Despite the overcrowded conditions in the undersized coffeehouse, everyone present shared the belief that the pub was a great idea. One senior felt that the pub would serve two basic purposes—a meeting place for seniors, and a place to meet faculty members in a unique, relaxed atmosphere. Other comments included "a totally different atmosphere than the rest of the campus," "good as long as it stays in hand," and the inevitable cliché, "it shows a progressive attitude."

Despite the jovial atmosphere, including several outbursts in song, some students felt disappointed because so few faculty members had come. One senior felt perhaps professors had thought they would lose respect in the eyes of the students if they came. One graduate student exclaimed that he wanted to see the faculty come down and loosen their ties.

Those faculty and administration members who were present expressed unanimous approval of the idea behind the pub, although one professor remarked "I didn't know as if I'd live to see it." They agreed that a more relaxed atmosphere prevailed in the pub than in the classroom and also felt that they would be more able to talk about problems other than the classroom variety with the students. Dean Van de Visse said that he had been for the idea since its beginning and hoped that the pub could get the students to meet the administration and faculty in other places. He hoped that in the future it wouldn't "take a bottle of beer to get them together."

The pub will tentatively begin regular weekly hours on Wednesday, November 15.

THE SPREAD-EAGLE OF TECHNOLOGY AT GRUMMAN

Ranges from inner to outer space

Grumman has special interest for the graduating engineer and scientist seeking the widest spread of technology for his skills. At Grumman, engineers are involved in deep ocean technology...engineers see their advanced aircraft designs proven daily in the air over Vietnam, and soon...in outer space, the Grumman LM (Lunar Module) will land the astronauts on the lunar surface. Grumman, situated in Bethpage, L.I. (30 miles from N.Y.C.), is in the cultural center of activity. Universities are close at hand for those who wish to continue their studies. C.C.N.Y., Manhattan College, New York University, Pratt Institute, Columbia University, State University at Stony Brook, Polytechnic Institute of Brooklyn, Hofstra University and Adelphi College are all within easy distance. The surroundings are not hard to take. Five beautiful public golf courses are in Bethpage—two minutes from the plant. White sand beaches stretch for miles along the Atlantic (12 minutes drive). The famed sailing reaches of Long Island Sound are only eleven miles away. The informal atmosphere is a Grumman tradition, matched by an equally hard-nosed one of turning out some of the free world's highest performance aircraft systems and space vehicles. To name a few...



LM—Lunar Module
to land the astronauts
on the lunar surface

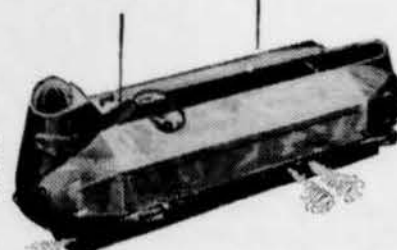


EA-6A Intruder—
All-weather, tactical,
electronic weapon system



PG (H)—57-ton
Hydrofoil Seacraft

PX15—4-Man Deep
Submersible Vessel to
conduct undersea experiments



Here then is the opportunity for graduating engineers, AEs, CEs, EEs, MEs, IEs, Physic majors and Chemical Engineering majors...to take their place in the continuum of technology that is Grumman. Grumman representatives will be

ON CAMPUS

DECEMBER 7

To obtain Grumman literature and arrange an interview, contact your placement office.

If an interview is not convenient at this time, send comprehensive resume to: Mr. Frank A. Hurley, Administrator of College Relations, Engineering Employment, Dept. GR-251



GRUMMAN
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Bethpage • Long Island • New York, 11714

An equal opportunity employer (M/F)

SHELTERS—

(Cont. from p. 4, col. 3)
cluded in the contract is work on new methods of fracturing marble

for aggregates and powder. Students from other departments have been involved with the latter part of the contract.

College Relations Director
c/o Sheraton-Park Hotel, Washington, D.C. 20008
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Address: _____

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TECH NEWS

Page Seven

NATIONAL SERVICE PROGRAM SUPPORTED BY McNAMARA

WASHINGTON (CPS) — A small-scale "national service" program could be initiated within the next few years, if support comes from the right quarters.

Such a program would give young people the opportunity to serve their country in non-military endeavors and would meet educational and manpower needs. Interested young people would be matched with service opportunities consistent with both the needs of the nation and with their own education and skills.

The concept of universal national service has been widely discussed in recent years. But, although the idea has been supported by Secretary of Defense Robert McNamara, it has never received wide-spread support, primarily because of the conflict with the draft.

But now, a non-profit organization called the National Service Secretariat is seeking support for a national service program which would be as far removed from the Selective Service System as possible. The secretariat is supported by private funds, not by the government.

Donald Eberly, executive director of the secretariat, said his organization is attempting to set up a network of service opportunities which would work somewhat like a computer dating system. For instance, young persons interested in working for about two years in some service agency would feed information about themselves into a computer. The computer, in turn, would match each individual with the service activity best suited for him.

Eberly sees the program supplying young people to work in such

fields as education, health, conservation, community service, and overseas assistance.

Existing agencies, such as the Peace Corps, the Job Corps, VISTA, and the Red Cross may participate in the program and receive volunteers. But the scope of the program would be almost unlimited, Eberly said. "Opportunities would be open for someone to work in a hospital in New York or to teach in Appalachia, for example."

Eberly will be sending out a proposal explaining the program and seeking support within the near future. The proposal, which came out of a conference on national service last spring, will be sent to both government and private agencies.

If service agencies are anxious to cooperate, and if enough financial support is received from private foundations and industry, the program possibly could start on a small-scale in a few years.

But Eberly thinks an effective national service program — one that would pay subsistence costs of service activities for all young people — will have to be underwritten by the government because of high costs (\$4-5,000 per volunteer). And it is unlikely that the government will support the program fully as long as the Vietnam war continues.

"It will probably be a decade or two, perhaps by 1980, before we have a universal program," Eberly said.

"The program would be universal in the sense of providing service opportunities for all young people, men and women, regardless of their financial status or educational background," Eberly said. He explains that, traditionally, volunteer service agencies have attracted only middle- and upper-class people because they are the only ones who can afford it.

"A 20-year-old who had to support his family would be given a family allowance to send back home," Eberly said. "This way everyone would have the same opportunity."

Although the secretariat wants to disassociate the program with the draft, Eberly admits this is almost impossible. "As long as the draft exists, it will affect the number of people interested in the program," he said.

After the program gets off the ground, Eberly would like to see legislation passed which would defer volunteers while they are in the non-military service. Their deferments would end after they completed their service, but "they should be given recognition for what they have done," Eberly said.

He proposes that draft boards place former national service volunteers later in the order of call, so that in effect, they would only be drafted in an emergency.

Eberly does not think young people would use the program as an escape from the draft, however. "In the first place, the period of commitment in the national service program could extend over a longer period of time than in the military service, perhaps two and a half or three years." And volunteers would still stand the chance of being drafted, he said.

In addition to recognition by the Selective Service system, the secretariat is recommending that volunteers be given academic and financial recognition for their service, to be applied against their further education.



If you want to rock the boat, it's fine with us.

It could help us to keep moving ahead. We discovered that during our pioneering years in a dynamic, young industry. It still applies today. Imaginative, inquiring minds are providing the impetus for progress in our exciting world of advanced VTOL aircraft systems.

Are you a factual innovator... impatient with status quo? Does fast-paced engineering challenge turn you on—rather than pat solutions? Then Sikorsky Aircraft can be your environment—in which to explore, expand and enrich your capabilities. You'll enjoy the stimulus of seeing your ideas become three-dimensional in ultra-sophisticated airborne vehicles of tomorrow.

Professional growth? Your demonstrated ability will create all the opportunities you can handle. And we think you'll appreciate our "engineer's atmosphere" that encourages an active interchange of ideas with some of the top men in your field.

If you're ready to take on responsible and demanding assignments, you'll find them here in: aerodynamics • human factors engineering • automatic controls • structures engineering • weight prediction • systems analysis • opera-

tions research • reliability/maintainability engineering • autonavigation systems • computer technology • manufacturing engineering • information science • marketing... and more.

And your career advancement can be materially assisted through our corporation-financed Graduate Study Program—available at many outstanding schools within our area.

Consult your College Placement Office for campus interview dates—or—for further information, write to Mr. Leo J. Shalvoy, Professional and Technical Employment.

Sikorsky Aircraft

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Colleges Eliminate Black Ball

—Lancaster, Pa.—(I.P.)—Beginning this fall, all fraternities at Franklin and Marshall College are required to eliminate the blackball procedure in which a prospective member may be dismissed by one, or in some cases several, vote against him during his pledge period.

The dismissal instead requires a two-thirds vote of a chapter's membership by secret ballot. This, according to a recommendation by a Committee To Study Student Life, should be done only "when there is sufficient sentiment on the part of the membership that the conduct of any one of its members is contrary to their standards of group living," and not automatically at the end of the pledge period.

The Committee described the "social unacceptability blackball" as "humiliating and unnecessary," noting that it found "distasteful a practice by which young men who are considered acceptable members of the College community are considered unacceptable to a self-appointed organization subordinate to that community." The Committee declared that "students should have the right to choose their friends and associates, so long as prejudice or bigotry are not reasons for rejection," but pointed out that "so long as a blackball procedure exists, members of fraternities do not in fact have full right to choose their fellow members."

BY LAWS—

(Cont. from p. 1, col. 3)

The subject of parietal hours was left entirely up to the dormitory committee and it was decided that upperclassmen could have female visitors as of January 1, 1968 under the following rules:

Women would be allowed in the dorms from 12 noon to 5 p.m. and from 7 p.m. to midnight on Saturdays and from 12 noon to 6 p.m. on Sundays. Women, other than members of the student's immediate family, must be at least 18 years of age or have a college I.D. Her escort must be a resident of the dorm and both must sign in at the dormitory office.

The person on duty at the office can refuse admission at his own discretion.

Any violations will be dealt with accordingly and all cases will be decided by the student court and/or other authorities deemed necessary under the circumstances.

Both the bylaws and the parietal hour regulations, which were kept simple in order to avoid confusion, are proposed measures which must be approved by the Executive Council before becoming effective.

In the immediate future the newly activated dormitory committee will take a poll among freshmen to see if there is any serious opposition to wearing jackets and ties at dinner. If there are enough objections, they may be eliminated or else required only for Sunday dinner.

"The Unbearable Price of this War"

Brig. General William W. Ford

Tonight, 8:00, Alden

"Why We Fight - Overseas"

Lt. General Harry P. Storke

Monday, 8:00, Morgan Hall

War Is Declared On United States

Copenhagen, Denmark (CPS)—The independent republic of Bird Island, situated in the middle of a city lake here, has declared total war on the United States, according to the British news service reporters.

The newly proclaimed republic has a population of six. It would have been seven, but one of the founding fathers fell overboard from the landing craft—a dinghy—and had to swim back to shore.

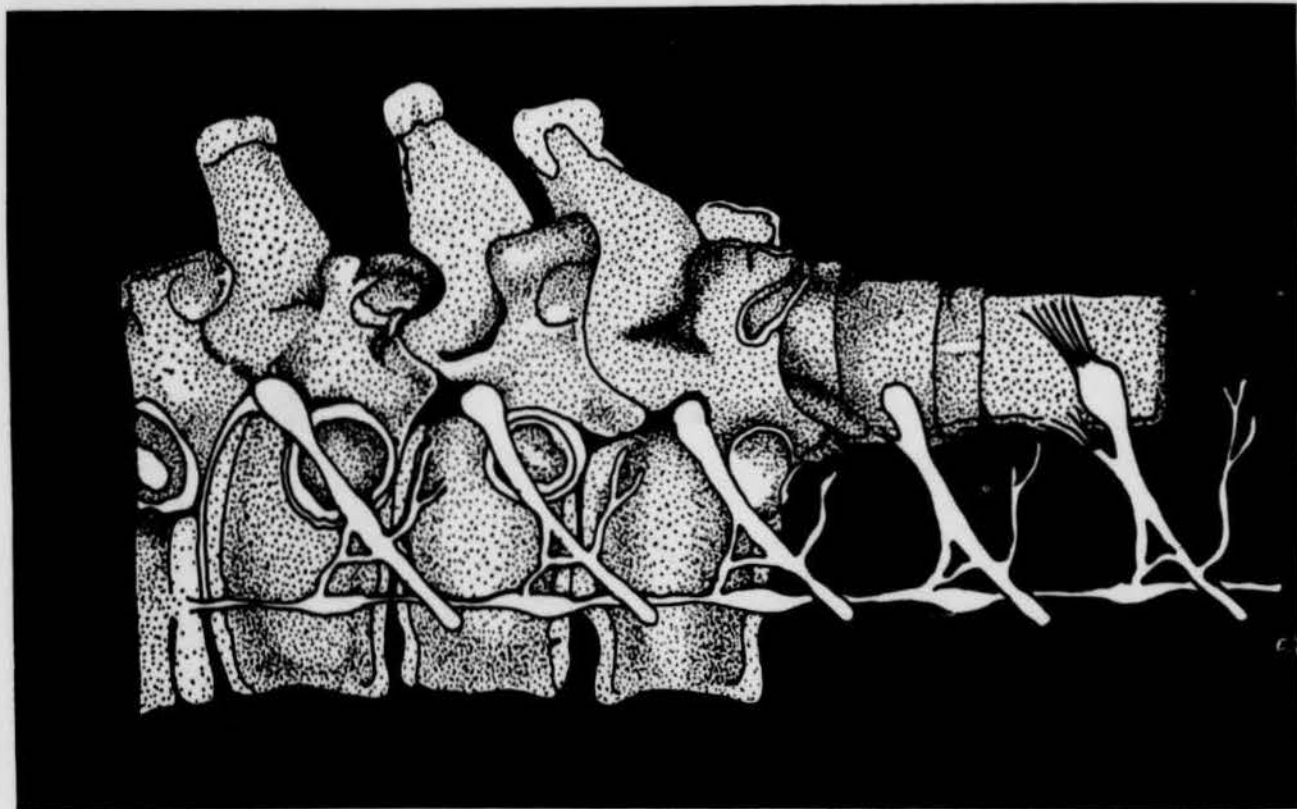
Danish police on the Banks of Lake Sortedamssoeen were making invasion plans today because the Bird Islanders—students from an organization called Zenish—refused to give up their 1200-square-yard country.

The group has sent a telegram to the United Nations seeking membership and a cable to the U. S. Embassy here declaring total war.

FINANCIAL AID INFORMATION

APPLICATIONS FOR
SECOND SEMESTER EMERGENCY LOANS
will be available in
Room 209, Boynton Hall,
Wednesday, November 15, 1967

INTERVIEW KOPPERS December 6



"Dr. Klein, sir!

I thought the axons emerge at metameric intervals from the ventrolateral angles of the cord!"

George was at it again. Every time Dr. Klein dropped his guard, George would catch it. George used his head. He came to class prepared. He was anxious—impatient.

Koppers is after impatient young graduates like George. We're growing so fast we have more job openings than we can fill, and we need young graduates to help us fill them—permanently. Answer this ad if you answer this description: Impatient,

anxious to get ahead, at home with fresh ideas. We want chemists, chemical engineers, mechanical engineers, metallurgists, metallurgical engineers, electrical engineers, civil engineers, business majors, liberal arts majors and MBA's. Afraid you might get into something you won't like? It's not likely at Koppers. We do all sorts of things with plastics, wood, metal and chemicals. Koppers supplies more

than 270 products and services to some 40 industries. Interview us. Make an appointment at your Placement Office. And write for our booklet, "Koppers and the impatient graduate." It tells what Koppers does and why Koppers needs impatient young people to help us do it. Write R. J. Dingman, Koppers Company, Inc., Koppers Building, Pittsburgh, Pa. 15219. Koppers has always been an equal opportunity employer.

Try your impatience. Interview...

KOPPERS

CHEMICALS AND COATINGS PLASTICS ARCHITECTURAL AND CONSTRUCTION MATERIALS ENGINEERED PRODUCTS ENVIRONMENTAL SYSTEMS ENGINEERING AND CONSTRUCTION

PLACEMENT—

(Cont. from p. 1, col. 1)

Nelson Thune, '67, C.H.E.—Procter & Gamble Co.

Moderators:

William Grogan, '46, E.E.—W.P.I.

Douglas McKeown, '41, C.H.E.—W.P.I.

The general address will begin at 7:30 p.m., followed by a break for refreshments. The program will conclude with a panel discussion.

Those planning to attend any or all of the program should inform the Placement Office by November 22.

IFC—

(ont. from p. 1, col. 4)

that freshmen who signed them up entered the house after 10:30 on Friday, Nov. 3. LCA was then found guilty and fined \$100.

Theta Chi also admitted that freshmen who had signed up the fraternity came in on Friday night. TC was then found guilty and fined \$100.

The Judicial Board then charged that by this action Theta Chi had broken its Observatory Status. After consideration of several proposals, the Judicial Board voted to place Theta Chi on Social Probation for the remainder of the current semester. Social Probation as defined by the Judicial Board (IFC) would mean no female guest except parents and family shall be entertained in the house at any time and that no alcoholic beverages shall be served within the house at any time. The members of the fraternity in question shall not attend parties at other fraternity houses. Furthermore, the provision preventing members of the fraternity from attending parties at other houses was extended to include Theta Chi's pledges.

SCIENCE CENTER—

(ont. from p. 3, col. 3)

contributions to education, development, and prestige in this city. Not only is it unique in the collection of museum, zoo, and gardens but also in the fact that it has been planned and will be built only by collected private funds.

Engineers!

Regardless of your military obligations, or your graduate school plans, come in and talk with us now about a career in technical management. We'll need good men 2 and 3 years from now as well as today.

PROCTER AND GAMBLE

will be interviewing in the Placement Office for BS and MS degree level ChE, ME, EE, IE, CE, and Chemists

DECEMBER 12, 1967

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- Employment of engineers directly from the campus to fill the needs generated by our expanding business.
- Providing early responsibility after a training period suited to the man's own needs.
- Promotion strictly from within on the basis of performance alone.

For summary information and detailed description of work areas, see our "Careers in Technical Management" literature in Placement Library.

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SCAN—

(Cont. from p. 1, col. 5)

of qualifications is sent by the student, through the Placement Office, to the College Placement Council, Inc., which enters this information into a computer.

Employers participating in the program receive copies of resumes filling their job requirements. The company then contacts these students and arranges an interview.

This system does not restrict a student, however. If the student

is not interested in a company which contacts him, he is under no obligation to be interviewed.

Conversely, a senior can still sign up for an interview with a company with which the computer has not matched him.

A main advantage to Tech students is that many corporations not scheduling general on-campus interviews will be able to contact the student individually.

For further information, contact Dean Trask at the Placement Office.

NOTICE

REPORTERS AND PHOTOGRAPHERS NEEDED for the

"TECH NEWS"

No previous experience needed!
Stop by office Sunday at 6:00
(The next meeting will be Sunday, December 3)

RAYTHEON COMPANY ...involved in sophisticated electronic systems utilizing state-of-the-art techniques...will have CAMPUS INTERVIEWS

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ELECTRICAL ENGINEERING
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For work in:

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Sign up for interviews through your Placement Office, or write Manager of College Relations, Raytheon Company, 141 Spring Street, Lexington, Massachusetts 02173.



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CAMPUS INTERVIEWS

MON. & TUES., DEC. 11 & 12

Appointments should be made in advance through your College Placement Office

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